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UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF HOME ECONOMICS  
Washington, D.C.

COMPOSITION OF SIRUPS

Cane, Sorghum, Maple, and Corn Sirups,  
Molasses and Honey

Selected list of references on proximate composition and mineral content

Anderson, A.K. The chemical changes which are caused by defecation of  
(1917) sorghum juice for syrup manufacture. Jour. Ind. and Eng.  
Chem. vol. 9, p. 492-9.

Solids, acidity, nitrogen, total ash, sugars, and calcium in a number of samples of sorghum juice and sirup.

Bailey, E.M. The thirty-first report on food products and the nineteenth  
(1927) report on drug products. Conn. Agr. Exp. Sta. Bul. 287,  
p. 377.

Solids, sugars, ash, and lead number in one sample maple sirup.

Bailey, E.M. The thirty-second report on food products and the twentieth  
(1928) report on drug products. Conn. Agr. Exp. Sta. Bul. 295,  
p. 321.

Solids, ash, acid, and sugars in 13 commercial honeys.

Bartlett, James M. Food and drug inspection. Maine Agr. Exp. Sta.  
(1908) Bul. 151, p. 17-19, and 24-28.

Solids, ash, and sugars in many samples of honey,  
and the same constituents in a number of samples  
of pure and compound molasses.

Bartlett, James M. Food and drugs. Maine Agr. Exp. Sta. Official In-  
(1923) spections 107, p. 5-6.

Solids, ash, and sugars in numerous commercial samples  
of molasses.

Bartlett, James M. Food and drugs. Maine Agr. Exp. Sta. Official In-  
(1925) spections 115, p. 6-7.

Solids, ash, and sugars in a number of samples of  
maple sirup.

Bartlett, James M. Food and drugs, Maine Agr. Exp. Sta. Official Inspections 139, p. 6-7.  
(1931)

Solids, ash, and sugars in several samples of maple sirup.

Bartlett, James M. Foods and drugs. Maine Agr. Exp. Sta. Official Inspections 147, p. 9.  
(1933)

Solids, sugar, ash, and lead number in 3 samples of maple sirup.

Browne, Charles. A. Chemical analysis and composition of American honeys. U. S. Dept. Agr. Bur. Chem. Bul. 110, 93 p.  
(1908)

Solids, sugars, ash, dextrin, and nitrogen in many kinds of honeys and honeydew.

Fraps, G. S. The chemical composition of Texas honey and pecans. Texas Agr. Exp. Sta. Bul. 272, p. 7.  
(1921)

Solids, protein, ash, and sugars in 18 samples of Texas honeys.

Friedemann, W. G. Food value of collards, mustard greens, turnip greens, and sirups. Georgia Agr. Exp. Sta. Press Bul. 278, (March 10, 1928).  
(1928)

Solids, total ash, calcium, phosphorus, and iron in 9 samples of sorghum sirup; ash, calcium, and phosphorus in several samples of corn sirup; ash and iron in maple sap; ash, iron, and phosphorus in New Orleans molasses.

Jackson, R. F., Mathews, J. A., and Chase, W. D. Analytical methods for the determination of levulose in crude products. Research Paper #495, U.S. Dept. Commerce, Bur. Standards Jour. Research, vol. 9, p. 597-613.  
(1932)

Solids and sugars in 12 samples of honey and honeydew.

Jordan, S., and Chesley, A. L. Sources and composition of some commercial invert sugar syrups with notes on sorghum sirup. Jour. Ind. and Eng. Chem. vol. 9, p. 756-8.  
(1917)

Solids, ash, sugars, gums and extractives, and acidity in one sample of sorghum sirup.

King, R. H., and Rotor, Rafael B. Philippine molasses. Sugar News, vol. 13, p. 150.  
(1932)

Solids, sugars, nitrogen, total ash, calcium, phosphorus, iron, and other constituents in Philippine molasses.

- Krauss, W.E. Studies on the nutritive value of milk. I. Ohio Agr. Exp.  
(1931) Sta. Bul. 477, p. 35.

Iron and copper in molasses.

- Ladd, Culver S. Food and Drug Bulletin with analyses and registration  
(1933) of beverages and commercial feeds. North Dakota Regulatory  
Dept. Bul. 40, p. 44-8.

Solids, ash, and sugars in 2 samples of honey and 9  
samples of table sirup including 4 maple sucrose sirups.  
Solids and ash in 6 commercial samples of honey.

- Lathrop, C.P. Some analyses of commercial corn sirups. Assn. Off. Agr.  
(1925) Chem. vol. 8, p. 714-15.

Sugars, acid and phosphorus in 9 samples of commercial  
corn sirup.

- North Dakota Agr. Exp. Sta. A preliminary report on sorghum sirups. 23 rd  
(1912) Ann. Rpt. North Dakota Agr. Exp. Sta. p. 203-6.

Solids, total ash, sugars, calcium, and phosphorus in  
six commercial samples of sorghum sirup. Solids, ash, and  
sugars in 5 samples of molasses.

- Peterson, W.H. and Elvehjem, C.A. The iron content of plant and animal  
(1928) foods. Jour. Biol. Chem. vol. 78, p. 215-23.

Solids and iron in one sample each of honey and molasses.

- Peterson, W.H. and Skinner, J.T. Distribution of manganese in foods.  
(1931) Jour. Nutr. vol. 4, p. 419-26.

Solids and manganese in honey and molasses.

- Schuette, H.A. and Remy, Kathora. Degree of pigmentation and its probable  
(1932) constituents of honey. Jour. Amer. Chem. Soc. vol. 54,  
p. 2909-13.

Total ash, iron, copper, and manganese in 10 samples  
of honey and 2 of honeydew.

- Sheets, Olive and Frazier, Ernestine. The effect of feeding sorghum and  
(1931) sugar cane sirups on nutritional anemia. Jour. Home Econ.  
vol. 23, p. 273.

Solids, total ash, iron, and copper in sorghum and  
sugar cane sirups.



Sherman, H.C. Chemistry of food and nutrition. 4th edition. The Macmillan  
(1932) Company, New York. p. 556-7.

Calcium, phosphorus, and iron in honey, maple sirup,  
and molasses.

Sherman, H.C. Food products. 3rd edition. The Macmillan Company, New York.  
(1933) p. 625.

Calcium, phosphorus, iron and manganese in molasses.

Sherman, H.C. and Gillett, L.H. The adequacy and economy of some city  
(1917) dietaries. New York Assn. for Improving the Condition of  
the Poor. Publ. 121, p. 32.

Calcium and phosphorus in 1 sample each of corn  
and maple sirup and 3 of molasses.

Snell, J.F. Analysis of maple products. 9. Effect of centrifugal  
(1927) clarification of maple sirup upon its analytical values.  
Jour. Ind. and Eng. Chem. vol. 19, p. 278.

Solids, ash, and Canadian lead number in maple sirup.

Thompson, Alice R. Chemical composition of Hawaiian honeys. Hawaii Agr.  
(1908) Exp. Sta. Bul. 17, 21 p.

Solids, total ash, sugars, calcium, and phosphorus in  
54 samples of honey and honeydew.

Winton, Andrew L. Eleventh report on food products. Conn. Agr. Expt.  
(1906) Sta. Rpt. for year ending Oct. 31, 1906, p. 131-5.

Solids, ash, and sugar in 3 commercial samples of  
maple sirup.

Woods, Charles D. Spices, prepared mustard, honey, and gluten flour.  
(1911) Maine Agr. Exp. Sta. Official Inspections 34, p. 109-24.

Solids, ash, and sugar in 7 samples of commercial  
brands of honey.